

COMMERCIAL POOL HEATING

ELECTROHEAT PRO SERIES HEAT PUMP

Electr  Heat PRO

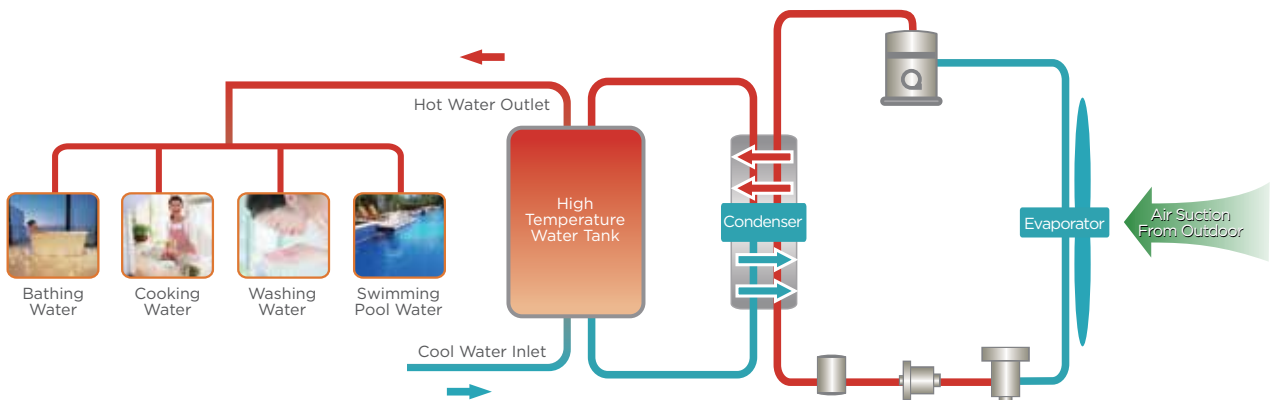
www.waterco.com.my

WATERCO
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Air source heat pump is the innovative heating equipment, which emphasizes on conservation in energy generation and environmental friendly technology. It is a highly efficient machinery in absorbing and transferring energy.

Its operation principle is based on the Reversed Carnot Cycle. By continuously absorbing the surrounding air, the Electroheat Pro Heat Pump is able to conduct heating at a fast rate while ensuring energy conservation and environmental-friendliness.

The high efficiency of Electroheat Pro Heat Pump is coupled with low operating cost. Its power consumption is only a quarter to that of electrical water heater.



Use ambient air to heat your pool



Electr Heat PRO 100

The **Electroheat PRO 100** heat pump has been designed to deliver efficient cost effective large pool heating in an easy to operate and install package.

- Electronically controlled temperature management
- Fault diagnostic system and inbuilt protection devices
- Hermetic scroll compressors
- Titanium heat exchangers
- R410A Refrigerant





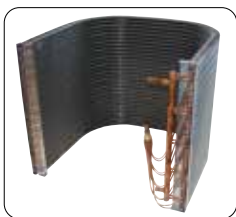
Fans

- Twin 660mm fans for maximum airflow
- Low noise emissions 69dBA @ 1 metre



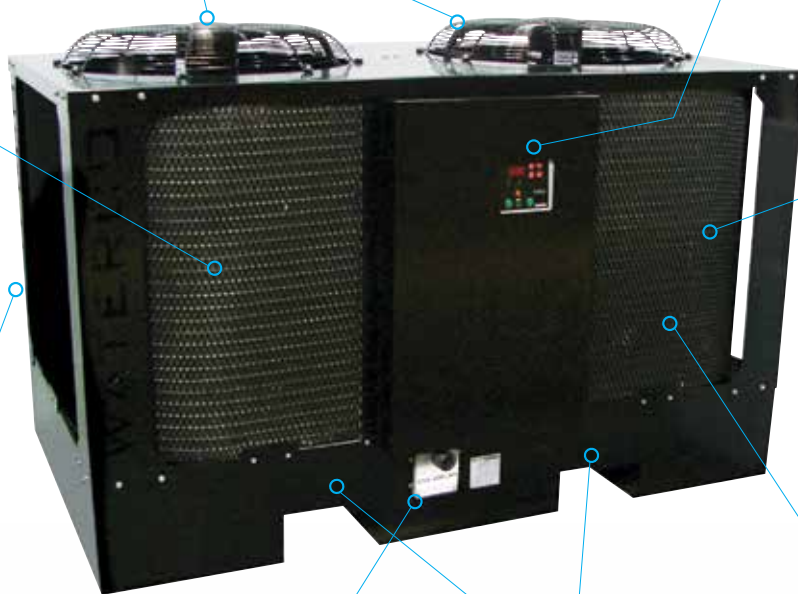
Control Panel

- Electronically controlled temperature management
- Continuous digital temperature display
- Phase and compressor monitoring



Evaporators

- Twin evaporators for enhanced heat absorption
- Automatic hot gas de-icing for cold climates



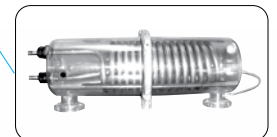
Compressor

- Twin high performance 11HP hermetic scroll compressors



Water Connection

- Easy to connect single in/out 80mm (3") water connections.
- Integral flow switch - protecting equipment from operation when no flow is detected



Heat Exchangers

- Six titanium coiled exchangers for maximum heat transfer and protection against corrosion



Electrical Connections

- Easy cable entry and electrical connection access

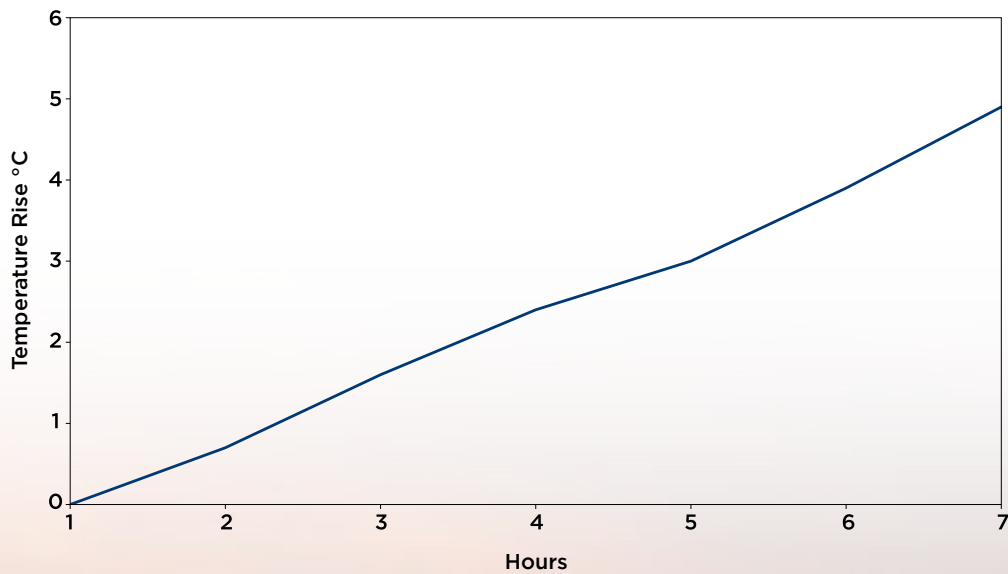


Cabinet

- Made from heavy duty powder coat sheet metal
- Easy installation and relocation with allowance for forklift tynes

- ✓ Cost Effective Heating
- ✓ Save up to 50% over natural gas, 80% over propane gas and 500% over electric element pool heater running costs compared to heat pumps.

Electroheat Pro 100 Temperature Rise



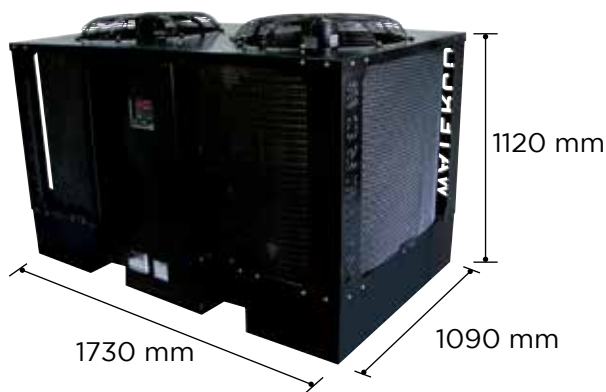
Testing performed on 100,000L water volume 12/2012

Specifications

Model Number	PRO100
Nominal Heating Capacity*	97KW (331,000 BTU)
Test Lab (26/26/80)	97KW (331,000 BTU)
Test lab (15/26/70)	67 kW (229,000 BTU)
Test Lab (10/26/63)	58 kW (198,000 BTU)
Compressor (HP)	(2 x) 11HP
Water Flow & Plumbing Characteristics	
Water Bypass Type	Ext. Field Install
Min./Max. Water Flow Rate (LPM)	500-680
Min./Max. Water Inlet Temperature (°C)	14° - 40°
Plumbing Connection Size (Slip)	80mm / 3" PVC
Electrical Characteristics	
50Hz Dual Rated Supply Voltage (VAC)	380-415V
Supply Voltage Phase	3
Unit run current (AMP)	29.5
Power consumption (kW)	16.12
Coefficient of Performance @ 26/26/80 (COP)*	6.4
Min./Max. Air Inlet Temperature (°C)	6° / 40°
Refrigerant Characteristics	
Refrigerant Type	R-410A
Physical Characteristics	
Cabinet Construction	Powder coat sheet metal
Color	Black
Weight (kg.)	453
Dimensions (mm)	1730W-1090L-1120H
Noise Emission Characteristics	
Noise Emission (dBA)	69 @ 1metre & 59 @ 3 metres

* (26/26/60) = Air Temp: 26° / Water Temp 26° / Humidity 60%

Dimensions



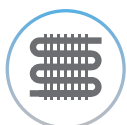
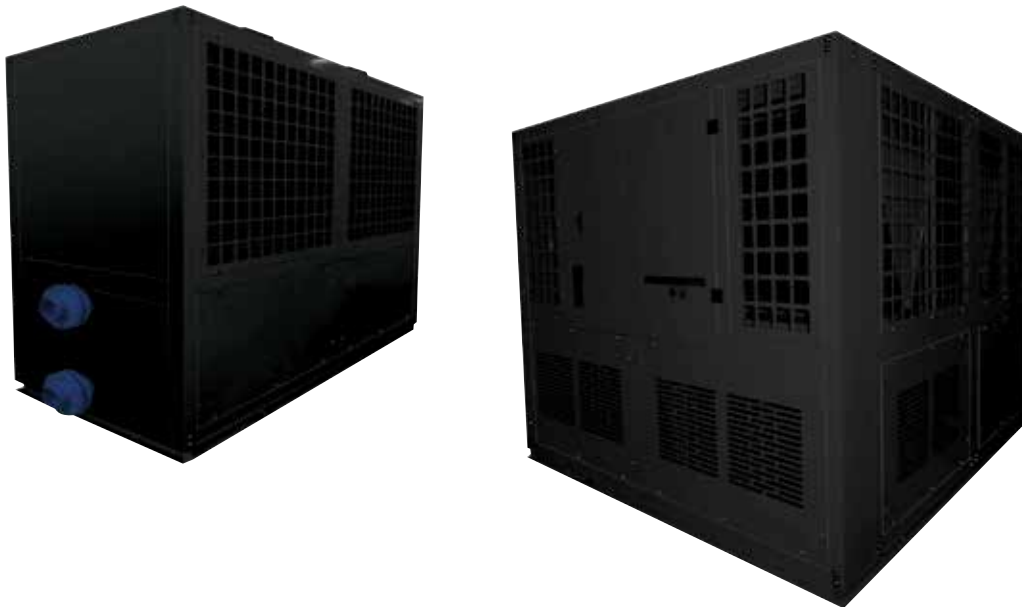
Clearance



Electr Heat PRO 150 & 250

The new generation **Electroheat PRO 150 and 250** series of heat pumps is the latest advancement in commercial size swimming pool heating. The heat pumps have been designed to deliver efficient and cost effective large pool heating in an easy to operate and install package.

- Hydrophilic aluminium evaporator
- Electronically controlled temperature management
- Hermetic scroll compressors
- Titanium heat exchangers
- R410A Refrigerant
- Energy-saving heating solution
- Delayed compressor operation as safety feature



Aluminium Evaporator



Electronically controlled temperature



Scroll Compressors



Titanium heat exchangers



R410A Refrigerant



Energy-saving heating solution

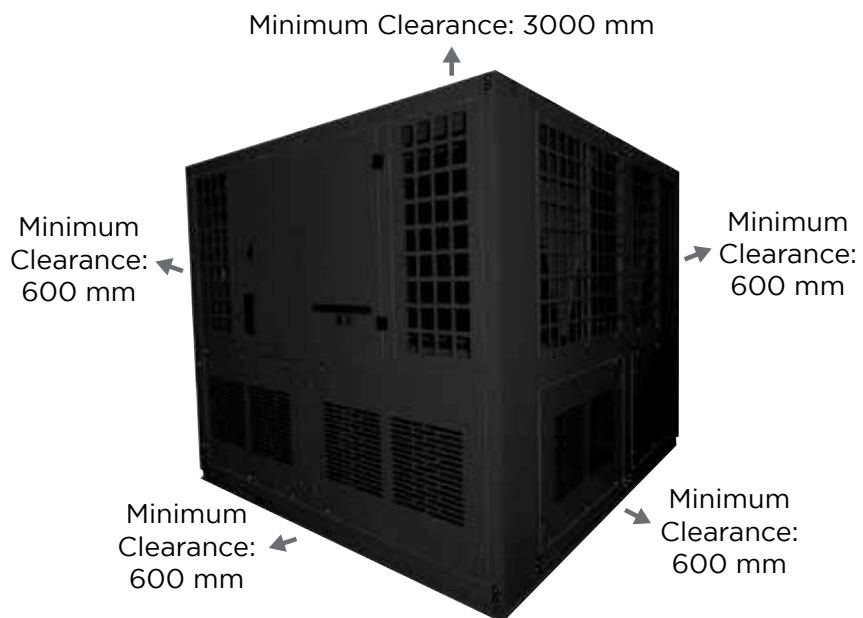
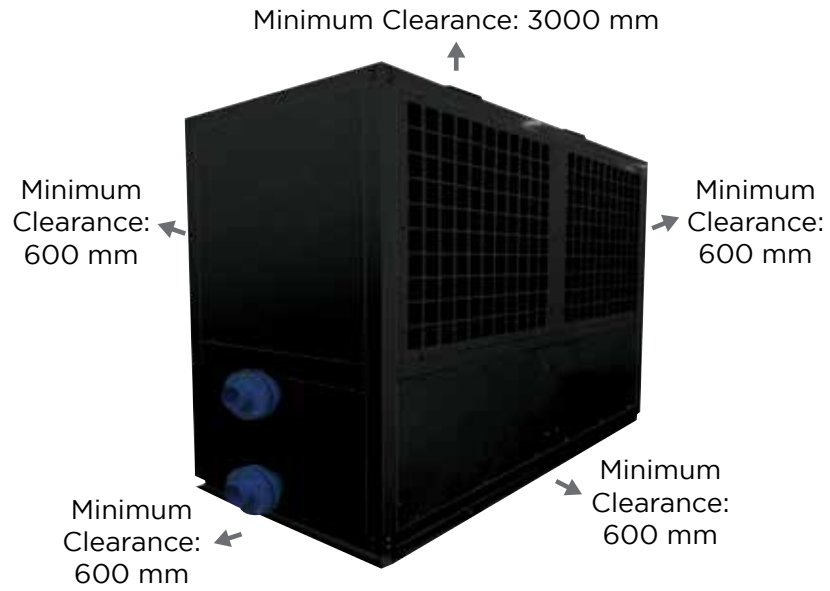


Delayed compressor operation

Energy efficient way to heat your pool



Clearance



Specifications

Model			Electroheat PRO 150	Electroheat PRO 250
Air 24°C/Water 27°C (Nominal)	Heating Capacity	kW	150 (511,500 BTU)	250 (852,500 BTU)
	Heating Input	kW	29	49
	COP		5.17	5.10
Air 27°C/Water 27°C	Heating Capacity	kW	157 (537,000 BTU)	262 (895,000 BTU)
	Heating Input	kW	29	50
	COP		5.41	5.24
Air 15°C/Water 27°C	Heating Capacity	kW	112 (384,500 BTU)	191 (652,500 BTU)
	Heating Input	kW	27	47
	COP		4.14	4.06
Air -5°C/Water 27°C	Heating Capacity	kW	66 (225,500 BTU)	110 (375,500 BTU)
	Heating Input	kW	23	39
	COP		2.86	2.82
Air -15°C/Water 27°C	Heating Capacity	kW	45 (153,000 BTU)	75 (255,500 BTU)
	Heating Input	kW	20	35
	COP		2.25	2.14
Air 35°C/Water 27°C	Cooling Capacity	kW	74 (255,500 BTU)	122 (418,000 BTU)
	Cooling Input	kW	31	47
	COP		2.38	2.59
Max. Current		A	80	132
Power Supply		V/Ph/Hz	380-415V/3Ph/50Hz	380-415V/3Ph/50Hz
Compressor	Type		Scroll	Scroll
	Quantity	pcs	2	4
	Capacity	kW	44	37
Refrigerant Type	Type		R410a	R410a
	Quantity	kg	6.5 × 2	5.5 × 4
Evaporator	Type		Hydrophilic aluminium/ φ9.52 inner groove tube	Hydrophilic aluminium/ φ9.52 inner groove tube
	Number of rows		3	2
	Fin spacing	mm	1.8	1.8
Fan motor	Speed		2-speed	2-speed
	Quantity	pcs	2	4
Water Flow Switch			Built-in	Built-in
Controller			Multi System Controller with Large LCD Monitor	Multi System Controller with Large LCD Monitor
Noise		dB(A)	60	65
Water Connection		mm	90 (Metric)	110 (Metric)
Water Flow Rate	Minimum	L/h	25,800	43,000
	Maximum	L/h	65,000	110,000
Dimension	L-W-H	mm	2000-980-1970	2000-2160-2000
Weight	Net Weight	kg	600	1,020

WATERCO

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Waterco pioneers reliable solutions for healthy, safe water environments, which are used in residential, commercial and industrial applications in over 40 countries.

Established in 1981, it has since become a global brand recognised for designing and manufacturing filtration and sanitisation innovations for the swimming pool, spa, aquaculture, and water purification sectors.



CONTACT WATERCO

Waterco's head office is situated in Sydney, Australia with international offices, manufacturing plants and warehouses located in Australia, New Zealand, Malaysia, Indonesia, Singapore, China, the US, Canada, and the UK.

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